

U.S. Department of Commerce, Patent and Trademark Office				Atty Docket No.	Serial No.		
				M-8915-2C US US	09/839,636		
MAY 21 2001 U.S. PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Applicants			
				Mohammad H. S. Amin et al.			
				Filing Date	Group		
				April 20, 2001	Unknown		
U.S. Patent Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>Sher</i>	AA	5,917,322	Jun. 29, 1999	Gershenfeld et al.	324	307	
Foreign Patent Documents							
		Document	Date	Country	Class	Subclass	Translation
	AB						Yes No
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>Sher</i>	AC	Blatter, G. et al., "Design aspects of superconducting-phase quantum bits", <i>The American Physical Society</i> (2001) Vol. 63, Pages 174511-1 to 174511-9.					
	AD	Briegel, H.-J. et al., "Quantum repeaters for communication" (1998), Pages 1-8.					
	AE	Bruder, C. et al., "Tunnel junctions of unconventional superconductors", <i>The American Physical Society</i> (1995) Vol. 51, Pages 904-907.					
	AF	Chrestin, A. et al., "Evidence for a proximity-induced energy gap in Nb/InAs/Nb junctions", <i>The American Physical Society</i> (1997) Vol. 55, Pages 8457-8465.					
	AG	Dana, A. et al., "Electrostatic force spectroscopy of a single InAs quantum dot" (2001), Pages 1-5.					
	AH	Feynman, R., "Simulating Physics with Computers", <i>International Journal of Theoretical Physics</i> (1982) Vol. 21, Pages 467-488.					
	AI	Grover, L., "A fast quantum mechanical algorithm for database search", Pages 1-8.					
	AJ	Havel, T. et al., "Principles and demonstrations of quantum information processing by NMR spectroscopy" (1999), Pages 1-42.					
	AK	Jacobs, A. et al., "Proximity Effect, Andreev Reflections, and Charge Transport in Mesoscopic Superconducting-Semiconducting Heterostructures" (1998) eight pages..					
<i>Sher</i>	AL	Jones, J. et al., "Implementation of a quantum search algorithm on a quantum computer", <i>Nature</i> (1998) Vol. 393, Pages 344-346.					
Examiner <i>Sher</i>		Date Considered 9-28-2003					
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.							

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<i>Sue</i>	AC	Joyez, P. et al., "Observation of Parity-Induced Suppression of Josephson Tunneling in the Superconducting Single Electron Transistor", <i>The American Physical Society</i> (1994) Vol. 72, Pages 2458-2461.						
	AD	Kitaev, A., "Quantum measurements and the Abelian Stabilizer Problem" (1995) Pages 1-22.						
	AE	Knill, E. et al., "Resilient Quantum Computation", <i>Science</i> (1998) Vol. 279, Pages 342-345.						
	AF	Korotkov, A. et al., "Charge sensitivity of radio frequency single-electron transistor", <i>American Institute of Physics</i> (1999) Vol. 74, Pages 4052-4054.						
	AG	Lachenmann, S. et al., "Charge transport in superconductor/semiconductor/normal-conductor step junctions", <i>The American Physical Society</i> (1997) Vol. 56, Pages 108-115.						
	AH	Mooij, J. et al., "Josephson Persistent-Current Qubit", <i>Science</i> (1999) Vol. 285, Pages 1036-1039.						
	AI	Nakamura, Y. et al., "Coherent control of macroscopic quantum states in a single-Cooper-pair box", <i>Nature</i> (1999), Vol. 398, Pages 786-788.						
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	AK	Ouboter, R. et al., "Macroscopic quantum interference effects in superconducting multiterminal microstructures", <i>Academic Press</i> (1999) Vol. 25, Pages 1005-1017.						
<i>Sue</i>	AL	Ryazanov, V. et al., "Coupling of two superconductors through a ferromagnet: evidence for a n junction" (2000) Pages 1-6.						
Examiner <i>Sue Runc</i>		Date Considered 9-28-2003						
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Schu	AC	Schoelkopf, R. et al., "The Radio-Frequency Single-Electron Transistor (RF-SET): A Fast and Ultrasensitive Electrometer", <i>Science</i> (1998), Vol. 280, Pages 1238-1242.					
	AD	Schulz, R. et al., "Design and realization of an all d-wave dc η -superconducting quantum interference device", <i>American Institute of Physics</i> (2000), Vol. 76, Pages 912-914.					
	AE	Shor, P., "Introduction to Quantum Algorithms" (2000) Pages 1-23.					
	AF	Shor, P., "Polynomial-Time Algorithms For Prime Factorization And Discrete Logarithms On A Quantum Computer", Pages 1-26.					
	AG	Shor, P., "Polynomial-Time Algorithms For Prime Factorization And Discrete Logarithms On A Quantum Computer", <i>Society for Industrial and Applied Mathematics</i> (1997) Vol. 26, Pages 1484-1509.					
	AH	Tafuri, F. et al., "Feasibility of biepitaxial $YBa_2Cu_3O_{7-x}$ Josephson junctions for fundamental studies and potential circuit implementation", <i>The American Physical Society</i> (2000) Vol. 62, Pages 431-438.					
	AI	Vandersypen, L. et al., "Experimental Realization of an Order-Finding Algorithm with an NMR Quantum Computer", <i>The American Physical Society</i> (2000) Vol. 25, Pages 5452-5455.					
	AJ	Vleeming, B., "The Four-terminal SQUID", Pages 1-100.					
	AK	Volkov, A. et al., "Phase-coherent effects in multiterminal superconductor/normal metal mesoscopic structures" (2000). Pages 1-6.					
Schu	AL	Ye, P. et al., "High Magnetic Field Microwave Conductivity of 2D Electrons in an Array of Antidots" (2001), Pages 1-4.					
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